

## Troy Weight.

	Weight of the several Cubes in Air.			Weight of the several Cubes in Water.			In proportion to their like bulk of Water.	
	O.	DW.	G.	O.	DW.	G.		
Gold	9	—11	—8	—9	—00	—6 $\frac{1}{2}$	} as {	17.3
Silver	5	—14	—10	—5	—03	—10 $\frac{1}{2}$		10.421
Copper	4	—16	—8	—4	—05	—10 $\frac{1}{2}$		8.841
Brass	4	—05	—7	—3	—14	—9		7.81
Lead	6	—02	—12	—5	—11	—17		11.35
Iron	4	—04	—17	—3	—13	—20		7.777

to Unity.

VII. *An Account of what appeared on the Dissection of the Body of Mr. — Dove. By the late Mr. William Cowper, Surgeon, F. R. S. In a Letter communicated by Dr. Hans Sloane, R. S. Secr.*

*Honoured Sir.*

**H**AD any opportunity offer'd, you should have received the following Account of what appeared on the Dissection of Mr. *Dove* before now.

The Body in divers Parts appeared of a Black, Blue, Livid, and various Colours, before I made any Incision into it; particularly the Back (where the Blood was settled) had a Cadaverous Blackness; where the *Cuticula* was

was here and there vesicated, or distended with *Serum*. Of this there was no Appearance before Death.

The Muscles of the *Abdomen* had a Mortified Appearance, being a blackish green Colour. The Liver was intirely sphacelated. The Spleen had large mortified Spots on its Surface: Both these Parts were specifically lighter than in the Natural State; insomuch, that Portions of each of them swam on the Surface of Water, and seemed to have more Air in them than we commonly find in the Lungs in their Natural State. The rest of the *Viscera* in this lower Cavity were not in so ill a State; tho' the Guts had here and there blackish Spots on them.

The Pectoral Muscles were in little better State than those of the *Abdomen*; nor were the Intercoastal Muscles like those of the Limbs. I am apt to think all the Muscles employed in Respiration, had more or less of this Blackish Appearance. The Right Lobes of the Lungs were diseased; and the same side of the *Thorax* had a small quantity of *Serum* in it. The Lungs on the other side were in no ill Condition. The Heart was very flaccid and large: The Right Ventricle and *Vena Cava* had no small *Polypus* in them. The *Vena Pulmonaris* was exceedingly dilated next the *Basis* of the Heart. The Left Ventricle of the Heart was furnished with a small *Polypus*, and a great quantity of Grumous Blood. The Great Artery was very thin, and appeared not a little extended, and had some Cartilaginous Bodies interspersed in its Membranes.

In the Head; the *Dura Mater* was found inseparable from the *Cranium* in its upper part. A *Polypus* was drawn out of the upper great Vein of the Brain, called *Sinus Falcis superior*.

The Carotide Arteries were very thin, and much larger than they ought to be, before they entered the Substance of the Brain. In short, all the Blood-Vessels

which I examined were very much dilated, and seemed to be charged with as much Wind as Blood.

If there is any thing I have omitted, or have been too tedious in, I hope you will be pleased to excuse me, being in some confinement for want of time; which I will endeavour to mend at leisure. I am

*Your obliged*

*Humble Servant,*

W. COWPER.

VIII. *A Letter from Mr. Ralph Thoresby, F. R. S. to Dr. Hans Sloane, R. S. Secr. Giving an Account of the Damage done by a Storm of Hail, which happen'd near Rotherham in Yorkshire, on June 7. 1711.*

*Leedes, Nov. 3. 1711.*

*Honoured Sir,*

BEING not long ago at *Wentworth-Woodhouse*, and other Places near *Rotherham*, where very considerable Damage was done by a Storm, I enquired after the most remarkable Particulars; which having receiv'd from so sure Hands as the Parties immediately concern'd, will not, I presume, be unacceptable to you.

The Storm of Hail, accompanied with very terrible Thunder and Lightning, happened upon the 7th of *June* last: It begun about *Rotherham*, (a little beyond which was somewhat of a Hurricane) where it burnt a noted Tree.